

# Mouse GITR / TNFRSF18 Protein (Fc Tag)



Sino Biological  
Biological Solution Specialist

Catalog Number: 57511-M05H

## General Information

### Gene Name Synonym:

AITR; Gitr

### Protein Construction:

A DNA sequence encoding the mouse TNFRSF18 (NP\_033426.1) (Met1-His153) was expressed with the Fc region of mouse IgG1 at the C-terminus.

**Source:** Mouse

**Expression Host:** Human Cells

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE.

### Endotoxin:

< 1.0 EU per µg protein as determined by the LAL method.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Gln 20

### Molecular Mass:

The recombinant mouse TNFRSF18 consists of 368 amino acids and predicts a molecular mass of 41 kDa.

### Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

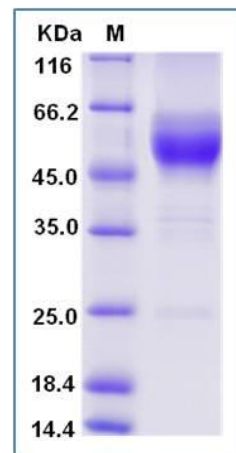
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

GITR, also known as TNFRSF18(CD357), belongs to the tumor necrosis factor receptor (TNF-R) superfamily. It is the receptor for TNFSF18. GITR plays a key role in dominant immunological self-tolerance maintained by CD25(+)/CD4(+) regulatory T cells. GITR may be involved in interactions between activated T-lymphocytes and endothelial cells and in the regulation of T-cell receptor-mediated cell death. GITR and its ligand are important costimulatory molecules in the pathogenesis of autoimmune diseases. It also mediates NF-kappa-B activation via the TRAF2/NIK pathway.

## References

- 1.Kwon B, *et al.* (1999) Identification of a novel activation-inducible protein of the tumor necrosis factor receptor superfamily and its ligand. *J Biol Chem.* 274(10):6056-61.
- 2.Nocentini G, *et al.* (1997) A new member of the tumor necrosis factor/nerve growth factor receptor family inhibits T cell receptor-induced apoptosis. *Proc Natl Acad Sci.* 94(12): 6216-21.
- 3.Baltz KM, *et al.* (2007) Cancer immunoediting by GITR (glucocorticoid-induced TNF-related protein) ligand in humans: NK cell/tumor cell interactions. *FASEB J.* 21(10):2442-54.

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For US Customer: Fax: 267-657-0217

● Tel: 215-583-7898

Global Customer: Fax :+86-10-5862-8288

● Tel:+86-400-890-9989

● <http://www.sinobiological.com>